



```
OS Macadamia integrifolia.
Location/Qualifiers
FT Peptide 1..28
FT /note= "signal peptide"
FT 29..666
FT Protein /note= "mature protein"
PN WO9827805-A1.
PD 02-JUL-1998.
PF 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Mannens JM, Marcus JP;
DR WPI: 98-377279/32.
DR N-PSDB: V42310.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 34-36; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 666 AA;

Query Match 95.9%; Score 520; DB 1; Length 666;
Best Local Similarity 95.7%; Pred. No. 1,42e-35;
Matches 66; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Db 117 NR0RDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 176
QY 76 NR0RDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 135
Db 177 EERKKEEDN 185
QY 136 EERKKEGDN 144
```

```
RESULT 3
ID W62829 standard; Protein; 666 AA.
AC W62829;
DT 27-OCT-1998 (first entry)
DE Macadamia integrifolia antimicrobial protein.
KM antimicrobial protein; infestation; control.
OS Macadamia integrifolia.
FH Key location/Qualifiers
FT Peptide 1..28
FT /note= "signal peptide"
FT 29..666
FT Protein /note= "mature protein"
PN WO9827805-A1.
PD 02-JUL-1998.
PF 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Mannens JM, Marcus JP;
DR WPI: 98-377279/32.
DR N-PSDB: V42311.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 39-41; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 666 AA;
```

```
Query Match 94.5%; Score 512; DB 1; Length 666;
Best Local Similarity 94.2%; Pred. No. 7.11e-35;
Matches 65; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Db 117 NR0RDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 176
QY 76 NR0RDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 135
Db 177 EERKKEEDN 185
QY 136 EERKKEGDN 144
```

```
QY 136 EERKKEGDN 144

RESULT 4
ID W62831 standard; Protein; 525 AA.
AC W62831;
DT 27-OCT-1998 (first entry)
DE Theobroma cacao antimicrobial protein.
KM antimicrobial protein; infestation; control.
OS Theobroma cacao.
PN WO9827805-A1.
PD 02-JUL-1998.
PF 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Mannens JM, Marcus JP;
DR WPI: 98-377279/32.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 47-49; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 525 AA;

Query Match 40.8%; Score 221; DB 1; Length 525;
Best Local Similarity 56.6%; Pred. No. 6.01e-10;
Matches 30; Conservative 9; Mismatches 11; Indels 3; Gaps 2;

Db 35 ERDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 84
QY 78 QRPDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 130
```

```
RESULT 5
ID R20181 standard; Protein; 566 AA.
AC R20181;
DT 16-APR-1992 (first entry)
DE Sequence encoded by 67 kD T. cacao protein cDNA.
KM Cocoa; flavour; vicillin; seed storage protein.
OS Theobroma cacao.
PN WO9119801-A.
PD 26-DEC-1991.
PF 07-JUN-1991; G00914.
PR 11-JUN-1990; GB-013016.
PA (MRSC ) MARS UK LTD.
PI Spencer ME, Hodge R, Deakin EA, Ashton S;
DR WPI: 92-024418/03.
DR N-PSDB: Q20377.
PT Recombinant cocoa proteins - are responsible for flavour in cocoa
PT beans and produced in large quantities using yeast and bacterial
PT expression vectors.
PS Claim 4; Fig 2; 59pp; English.
CC The inventors claim a 67 kD and 31 kD T. cacao protein, and
CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
CC derived from the 67 kD precursor. T. cacao protein cDNA was
CC detected in a cDNA library prepared from immature cocoa beans RNA
CC using a probe based on the AA sequence of a CNBR peptide common to
CC the 47 kD and 31 kD polypeptides. Homology searches revealed close
CC homologues between the 67 kD polypeptide and the vicillins, which are
CC seed storage proteins.
SQ Sequence 566 AA;
```

```
Query Match 40.8%; Score 221; DB 1; Length 566;
Best Local Similarity 56.6%; Pred. No. 6.01e-10;
Matches 30; Conservative 9; Mismatches 11; Indels 3; Gaps 2;

Db 35 ERDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 84
QY 78 QRPDPQOQYEQCQRCORRETEPRHMQTCQRCERREKRRKQKRYEQREDEEKY 130
RESULT 6
```



```

50 Sequence 593 AA;
Query Match 22.9%; Score 124; DB 1; Length 593;
Best Local Similarity 31.4%; Pred. No. 3,63e-02;
Matches 22; Conservative 16; Mismatches 28; Indels 4; Gaps 4;

Db 28 NHHNHGKSGACRCRDRPMWRP-R-CLEOC-REPEREKROERSRHEADRSRGSS 84
|:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::|
OY 76 NKRRPQQOQYECCKRCQRETERPRHMOICQRCERRYEKKKQRYEQRDEDEKY 135

Db 85 EDEROEKER 94
| | | |
OY 136 E-ERMKEGDN 144

RESULT 10
ID W62841 standard; Protein; 28 AA.
AC W62841;
DT 27-OCT-1998 (first entry)
DE Stenocarpus sinuatus antimicrobial protein.
OS antimicrobial protein; infestation; control.
OS Stenocarpus sinuatus.
PN MO9827805-A1.
PD 02-JUL-1998.
PF 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
RA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
WPI: 98-317279/32.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 66; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 28 AA;

50 Sequence 28 AA;
Query Match 20.3%; Score 110; DB 1; Length 28;
Best Local Similarity 50.0%; Pred. No. 4,17e-01;
Matches 13; Conservative 7; Mismatches 6; Indels 0; Gaps 0;

Db 2 DPTRQQLCOMRCQOEKDPQQOQC 27
|:::| |:::| |:::| |:::| |:::|
OY 80 DPQOYECQKRCQRETERPRHMOIC 105

RESULT 11
ID W62836 standard; Protein; 33 AA.
AC W62836;
DT 27-OCT-1998 (first entry)
DE Zea mays antimicrobial protein.
OS Zea mays antimicrobial protein; infestation; control.
OS Zea mays.
PN MO9827805-A1.
PD 02-JUL-1998.
PF 22-DEC-1997; AU0874.
PR 20-DEC-1996; AU-004275.
RA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
WPI: 98-317279/32.
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
useful for controlling microbial infestations of plants or mammals
PS Dislosure; Page 60; 96pp; English.
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
SQ Sequence 33 AA;

Query Match 20.1%; Score 109; DB 1; Length 33;
Best Local Similarity 44.4%; Pred. No. 4,96e-01;
Matches 12; Conservative 7; Mismatches 7; Indels 1; Gaps 1;

6 ECRROCLRHHGQRPWTECMRRRCRR 32

```

```

OY      87  OQKRCQRR-ETEPRHMQICQRCERR 112
      :|:::| | | |:::| | | |:::| |
RESULT 12
ID      R21079 standard; Peptide; 35 AA.
AC      R21079.
DE      09-APR-1992 (first entry)
DT      Antimicrobial maize peptide, CMII.
KW      Maize; CMII; corn; pathogen.
OS      Zea mays.
PN      EP-465009-A.
PM      08-JAN-1992.
PF      05-JUN-1991; 305064.
PR      05-JUN-1990; US-536127.
PA      (PION-) PRIONEER HI-BRED INT.
PI      Duwick JP, Rood TA, Rao AG:
      WP1: 92-010214/02.
PT      Use of maize seed peptide CMII and DNA encoding it - for killing
PR      or inhibiting plant pathogenic microorganisms.
PS      Example 2; Page 5; 21pp; English.
CC      The peptide (SEQ ID NO 1) was purified from public corn variety B73
CC      and proprietary corn variety "M18. It is basic and has a total
CC      mol. wt. of 3900 daltons. The peptide sequence was used to design
CC      probes which were used to screen a maize genomic or cDNA library.
CC      The isolated CMII gene can be used to prepare an expression vector
CC      for prodn. of recombinant CMII for use in controlling plant patho-
CC      genic organisms.
CC      See also Q20272 and 3.
SQ      Sequence 35 AA:

Query Match 18.5%; Score 100; DB 1; Length 35;
Best Local Similarity 44.4%; Pred. No. 2.30e+00;
Matches 12; Conservative 6; Mismatches 8; Indels 1; Gaps 1.

DB      6  ECRROCLRHEGOPYETDECMRCRCRR 32
OY      87  OQKRCQRR-ETEPRHMQICQRCERR 112
      :|:::| | | |:::| | | |:::| |
RESULT 13
ID      R26941 standard; Protein; 316 AA.
AC      R26941.
DE      08-FEB-1993 (first entry)
DT      P.falciparum LSA-R-NR protein.
KW      Malaria; hepatocyte, sporozoite; plasmid DG 536; T-cell epitope;
KW      paludism; liver stage-specific antigen.
OS      Plasmodium falciparum.
FH      Key
FT      Location/Qualifiers
FT      region 1..209
FT      /label=repeat_region
FT      /note="contains 12 x 17mer repeats"
FT      region 210..316
FT      /label=non-repeat_region
PN      W09213884-A.
PD      20-AUG-1992.
PE      05-FEB-1992; F001004.
PR      05-FEB-1991; FR-001286.
PA      (INSP ) INST PASTEUR.
PI      Druligne P, Guerin-Marchand C, Guerinmarchand C;
DR      WP1: 92-289985/36.
DR      N-PSDB: Q28115.
PT      Polypeptide(s) derived from liver stage of Plasmodium falciparum
PT      - for vaccination against treatment of and diagnosis of malaria
PS      Disclouser: Fig 1; 81pp; French.
CC      A genomic DNA bank of P.falciparum EcoRI fragments prepared in
CC      lambda gIII was used to transform E.coli. The expression library was
CC      screened with human antisera against antigens of all stages of P.
CC      falciparum. The library was rescreened with antibodies affinity-
CC      purified on a clone which was able to recognise antibodies specific
CC      to the hepatic phase. About 40 clones were detected which produced a
CC      characteristic LSA epitope. The clone with the largest insert
CC      (950 bases) encoded LSA-R-NR containing a 12-repeat region followed

```



